



# Semi-Annual Report Shutdown and Malfunction Report Arecibo Municipal Solid Waste Landfill

January to June 2018

Prepared by: Landfill Technologies of Arecibo, LLC

### Landfill Technologies of Arecibo, LLC Shutdown and Malfunction Report

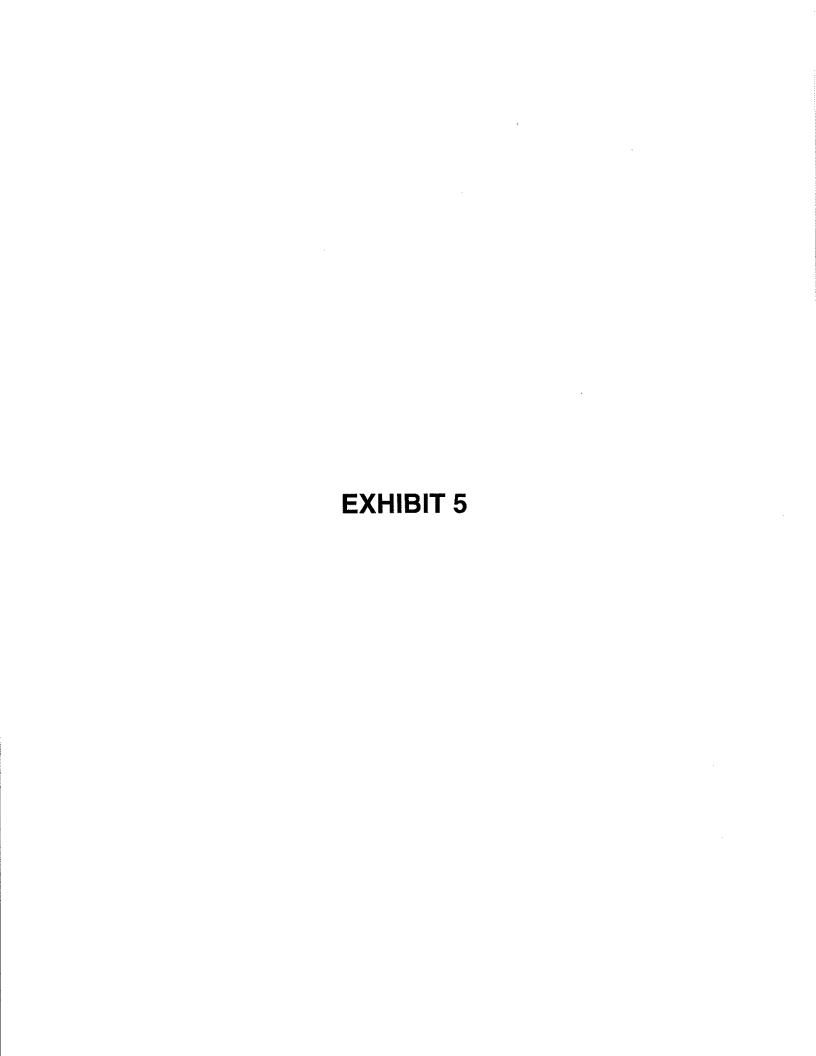
January to June 2018 Arecibo Municipal Solid Waste Landfill

Shutdow Date	Shutdown	Description	Corrective Action
1/4/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
1/18/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
1/22/2018	Flare Fault	This was caused by power fallure of electricity.	was restarted and was kept on operation
1/26/2018	Flare Fault	This was caused by power fallure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
1/26/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
2/2/2018	Flare Fault	This was caused by power fallure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
2/3/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
2/6/2018	High Temperature	Thermocouple damaged	The thermocouple was replaced and the system was restarted and was kept on operation throughout the day as expected.
2/13/2018	High Temperature	Thermocouple damaged	The thermocouple was replaced and the system was restarted and was kept on operation throughout the day as expected.
2/16/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
2/26/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
2/27/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
3/3/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
3/8/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
4/11/2018	No Alarma	Header pipe broke	The header pipe was repaired and the system was restarted and was kept on operation throughout the day as expected.
4/13/2018	Flare Fault	This was caused by power fallure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
4/20/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
4/21/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
4/26/2018	Flare Fault	This was caused by power fallure of electricity.	The energy was re-established and the system was restarted and was kept on operation
5/1/2018	Flare Fault	This was caused by power failure of electricity.	throughout the day as expected.  The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
5/2/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation
5/5/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.

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5/9/2018	Flare Fault	This was caused by power fallure of electricity.	The energy was re-established and the system was restarted and was kept on operation
		•••••••••••••••••••••••••••••••••••••••	throughout the day as expected.
5/9/2018		This was caused by power fallure of electricity.	The energy was re-established and the system
	Flare Fault		was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault	This was caused by power fallure of electricity.	The energy was re-established and the system
5/10/2018			was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault	This was caused by power failure of electricity,	The energy was re-established and the system
5/11/2018			was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault		The energy was re-established and the system
5/12/2018		This was caused by power failure of electricity.	was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault		The energy was re-established and the system
5/15/2018		This was caused by power failure of electricity.	was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault		The energy was re-established and the system
5/15/2018		This was caused by power failure of electricity.	was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system
5/16/2018			was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system
5/17/2018			was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault	This was caused by power fallure of electricity.	The energy was re-established and the system
5/18/2018			was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system
6/1/2018			was restarted and was kept on operation
			throughout the day as expected.
6/11/2018	Flare Faull	This was caused by power failure of electricity.	The energy was re-established and the system
			was restarted and was kept on operation
			throughout the day as expected.
6/27/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system
			was restarted and was kept on operation
			throughout the day as expected.





# Semi-Annual Report Shutdown and Malfunction Report Arecibo Municipal Solid Waste Landfill

July to December 2018

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Shutdown Date	Shutdown	Description	Corrective Action
7/3/2018	Flare Fault	Repair of header pipe	The reparation of the header pipe was completed and the system was restarted and was kept on operation throughout the day as expected.
7/6/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
7/13/2018	Flare Fault	This was caused by power failure of electricity.	was restarted and was kept on operation
7/14/2018	Flare Fault	Lateral Pipe broke	The pipe was repaired and the system was restarted and was kept on operation throughout the day as expected.
7/19/2018	Flare Fault	Lateral Pipe broke	The pipe was repaired and the system was restarted and was kept on operation throughout the day as expected.
7/20/2018	Flare Faull	This was caused by power fallure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
8/10/2018	E-Stop	Disconnection of header pipe 8"	The connection was re-established and the system was restarted and was kept on operation throughout the day as expected.
8/11/2018	Flare Fault	This was caused by power failure of electricity,	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
8/16/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
8/18/2018	E-Stop	Repair of 8 in. pipe	The reparation of the header pipe was completed and the system was restarted and was kept on operation throughout the day as expected.
8/28/2018	Flare Fault	Disconnection of header pipe 8"	The connection was re-established and the system was restarted and was kept on operation throughout the day as expected.
8/29/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
9/4/2018	Flare Fault	Replace of plpe.	The pipe was replaced and the system was restarted and was kept on operation throughout the day as expected.
9/6/2018	Flare Fault	Header pipe line broke	The header pipe line was repaired and the system was restarted and was kept on operation throughout the day as expected.
9/14/2018	Flare Temperature Higi	Thermocouple damaged	The thermocouple was replaced and the system was restarted and was kept on operation throughout the day as expected.
9/21/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
10/1/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
10/4/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
10/6/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
10/12/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system was restarted and was kept on operation throughout the day as expected.
10/13/2018	Flare low pressure	Fall of air to the condensate pump	The air pipe was verified and re-established. The system was restarted and was kept on operation throughout the day as expected.
10/16/2018	E-Stop	Verification of condensate pump.	The system was restarted and was kept on operation throughout the day as expected.

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1	-		The reparation of the pipe line was completed
10/20/2040	E Ston	Paneir of lateral pine line of 6 Inches	and the system was restarted and was kept on
10/20/2018	E-Stop	Repair of lateral pipe line of 6 inches.	operation throughout the day as expected.
	· · · · · · · · · · · · · · · · · · ·		The energy was re-established and the system
10/22/2010	Flare Fault	This was caused by power failure of electricity.	was restarted and was kept on operation
10/22/2018	riale rauli	This was caused by power failure of electricity.	throughout the day as expected.
	<del> </del>		The maintenance was completed and the system
10/23/2018	Shutdown	The shutdown was due to a regular maintenance.	was restarted and was kept on operation
			throughout the day as expected.
			The energy was re-established and the system
10/25/2018	Flare Fault	This was caused by power fallure of electricity.	was restarted and was kept on operation
			throughout the day as expected.
			The maintenance was completed and the system
10/26/2018	Shutdown	The chutdown was due to a regular maintenance	was restarted and was kept on operation
10/20/2018	Ondidown	The shutdown was due to a regular maintenance.	throughout the day as expected.
1			The energy was re-established and the system
11/5/2018	Flare Fault	This was caused by power failure of electricity.	was restarted and was kept on operation
11/3/2010	Trais Laut	This was caused by power failure of electricity.	throughout the day as expected.
	MM/4M		The energy was re-established and the system
11/7/2018	Flare Fault	This was caused by power failure of electricity.	was restarted and was kept on operation
111772010	r rate i dent	This was databa by power failure or distallions.	throughout the day as expected.
<b></b>	<u></u>		The energy was re-established and the system
11/14/2018	Flare Fault	This was caused by power failure of electricity.	was restarted and was kept on operation
1111412010	i iais i dult	The tipe occord of porter takes of diodrioty,	throughout the day as expected.
			The energy was re-established and the system
11/19/2018	Flare Fault	This was caused by power failure of electricity.	was restarted and was kept on operation
		,,,,,,	throughout the day as expected.
	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system
11/21/2018			was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system
12/3/2018			was restarted and was kept on operation
			throughout the day as expected.
	Flare Fault	This was caused by power fallure of electricity.	The energy was re-established and the system
12/6/2018			was restarted and was kept on operation
			throughout the day as expected.
12/12/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system
			was restarted and was kept on operation
			throughout the day as expected.
12/18/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system
			was restarted and was kept on operation
			throughout the day as expected.
12/27/2018	Flare Fault	This was caused by power failure of electricity.	The energy was re-established and the system
			was restarted and was kept on operation
			throughout the day as expected.